

### 301.5 - Particle Count Materials (powder and suspension forms)

These SRM and RM materials are intended for use in calibrating the response of particle sizing instrumentation, including optical counters, in accordance with National Fluid Power Association ([NFPA](#)) and ISO standard methods (NFPA/T2.9.6 R2-1998, ISO/FDIS 11171, ISO/FDIS 12103) for determining particle contamination in oils. SRM 2806b is certified for particle concentration and projected area diameter. It consists of a polydisperse, irregularly-shaped mineral dust suspended in 5606 hydraulic fluid. RMs 8631a and 8632 are mineral test dusts of medium and ultrafine particle size and can be used to prepare suspensions in other types of oils. **NOTE:** The same lot of medium test dust was used to produce SRM 2806b and RM 8631a, and is a derivative of Arizona Road Dust.

PLEASE NOTE: The tables are presented to facilitate comparisons among a family of materials to help customers select the best SRM for their needs. For specific values and uncertainties, the certificate is the only official source.

SRM	Description	Unit Size	Particle Size Range
2806b	Medium Test Dust (MTD) in Hydraulic Fluid	2 x 400mL	1 $\mu\text{m}$ to 30 $\mu\text{m}$
8631a	Medium Test Dust (MTD)	20 g	<i>4 <math>\mu\text{m}</math> to 40 <math>\mu\text{m}</math></i>
8632	Ultra Fine Test Dust (UFTD)	20 g	<i>1 <math>\mu\text{m}</math> to 20 <math>\mu\text{m}</math></i>

- Certified values are normal font
- Reference values are italicized
- Values in parentheses are for information only